Cyclosporin A (Sigma 49H4066) was mixed with PEG-12 Glyceryl Dioleate by vortexing and sonication for 10 minutes. Water was added and gently mixed. Examination under optical microscope at 600 power showed mulitlamelar liposomes and crystals of cyclosporin A.

Example 5

Spontaneous Liposomes with Active Compounds for Dermatology

Ingredient	Conc. (wt)
PEG-12 GDO	18 g
Betamethasone diproprionate	50 mg
Cholesterol	100 mg
Uniphen-23 ®	1.5 mg
Water	80.35 g

Weighed amounts of PEG-12 Glyceryl Dioleate, Betamethasone diproprionate and cholesterol were combined and heated to 50° C. while mixing. Uniphen-23® and water were combined an heated to 50° C. When mixtures reached temperature they were commingled while stirring gently. Mixture was cooled to room temperature while stirring. Examination by optical microscope at 100× and 600× showed a suspension of multilamellar liposomes.

Example 6

Spontaneous Liposomes with Active Compounds for Topical Anesthesia

Ingredient	Conc.
Tetracaine	2 g
PEG-12 GDO	20 g
Uniphen-23 ®	1.5 g
Water	76.5 g

Tetracaine, PEG-12 Glyceryl Dioleate, and Uniphen-23® were mixed together and heated to 40° C. while stirring. Water was heated to 40 degrees C. and added to the tetracaine solution while stirring gently. Mixture was cooled to room temperature. Examination by electron microscope showed LUV's and MLV's.

Example 7

Spontaneous Liposomes for Intravenous and Topical Formulations

Tretinoin (all-trans retinoic acid), 6 mg, was dissolved in 500 ul of PEG-12 Glyceryl Dioleate. Dissolution was complete. Distilled water, 4.5 ml, was added to the mixture and gently mixed. This yielded a concentration of 1 mg/ml. Examination by optical microscope showed multilamellar liposomes in the size range of 100 nm to 200 nm. This solution can easily be incorporated into a cream, gel or lotion dosage form.

While embodiments and applications of this invention have been shown and described, it would be apparent to those skilled in the art having the benefit of this disclosure that many more modifications than mentioned above are possible without departing from the inventive concepts herein. The invention, therefore, is not to be restricted except in the spirit of the appended claims.

What is claimed is:

1. A composition for the preparation of a liposome, said composition comprising:

an active compound, where the active compound is a protein, peptide, nucleic acid, agent for treating a neoplasm, agent for treating inflammation, agent for treating an infection, agent for treating a gasterointestinal disease, agent for treating an immunological disease, agent for treating a skin diseases or an eye disease, agent use in diagnosing disease, nutrient, agent for treating a blood disease, agent for treating a metabolic disease, agent for treating a cardiovascular disease, agent for treating a renal disease, agent for treating a genitourinary disease, agent for treating a respiratory disease or agent for treating a central nervous system disease; and

one or more lipids selected from the group consisting of PEG-12 glycerol dioleate (GDO), PEG-12 glycerol dimyristate (GDM), PEG-23 glycerol dipalmitate (GDP), PEG-12 glycerol distearate (GDS), and PEG-23 GDS, where the number after "PEG" indicates the numbers of C_2H_4O subunits in the PEG chain.

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